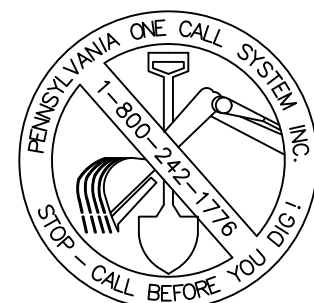


# CHERRY LANE SCHOOL ZONE FLASHER

## CONTRACT 2023-C4

### JANUARY 8, 2024

## REVISED FEBRUARY 14, 2024



BEFORE YOU DIG ANYWHERE IN  
PENNSYLVANIA ! CALL 1-800-242-1776  
NON-MEMBERS MUST BE CONTACTED DIRECTLY

**GENERAL UTILITY & ACT 38 INFORMATION:**

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CONTRACTOR SHALL NOTIFY THE PA ONE CALL SYSTEM NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PLACE THE CALL AND REFERENCE THE SERIAL NUMBER GIVEN AND PROVIDE AN APPROXIMATE DATE AND TIME THAT DIGGING WILL OCCUR. THE ONE CALL SYSTEM WILL AGAIN NOTIFY THE PUBLIC UTILITIES IN THE AREA. PUBLIC UTILITIES WILL THEN COORDINATE DIRECTLY WITH THE CONTRACTOR FOR ACTUAL FIELD LOCATIONS.  
PA ONE CALL SYSTEM: PH. 1-800-242-1776  
SERIAL NO.: 20240081670

**SANITARY:** UNIVERSITY AREA JOINT AUTHORITY  
1576 SPRING VALLEY ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-5361

**STORM:** FERGUSON TOWNSHIP  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
PH: (814) 238-4651

**WATER:** STATE COLLEGE BOROUGH WATER AUTHORITY  
1201 WEST BRANCH ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-6766

**GAS:** COLUMBIA GAS OF PENNA. INC.  
2550 CAROLEAN INDUSTRIAL DRIVE  
STATE COLLEGE, PA 16801  
PH: (814) 278-5842; WEEKEND: (888) 460-4332

**ELECTRIC:** WEST PENN POWER COMPANY  
2800 EAST COLLEGE AVENUE  
STATE COLLEGE, PA 16801  
PH: (814) 231-5338/(800) 255-3443

**CABLE:** COMCAST  
250 REESE ROAD  
STATE COLLEGE, PA 16801  
PH: (814) 238-8510/(740) 773-4123

**PHONE:** VERIZON PENNSYLVANIA, INC.  
224 SOUTH ALLEN STREET  
STATE COLLEGE, PA 16801  
PH: (814) 231-6528; AFTER HOURS (800) 275-2355

**WINDSTREAM**  
441 SCIENCE PARK ROAD  
STATE COLLEGE, PA 16803  
PH: (814) 272-2685

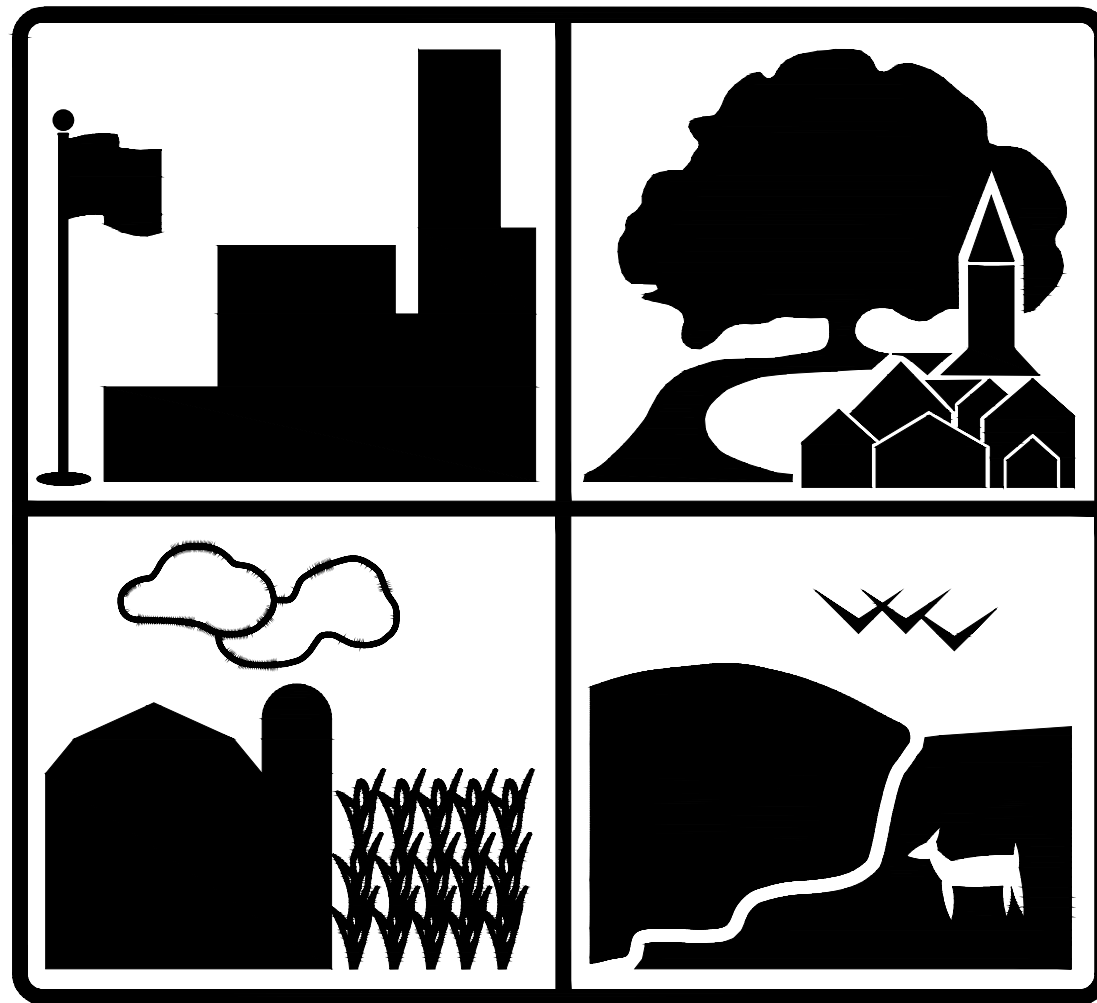
**ALLEGHENY COMMUNICATIONS CONNECT (FIBER)**  
100 BRUSH RUN ROAD  
GREENSBURG, PA 15601  
PH: (866) 463-8222

**FIRST ENERGY TELECOM SERVICES, INC.**  
2800 POTTSVILLE PIKE, P.O. BOX 15164  
READING, PA 19612-5164  
PH: (877) 611-2111

**ALL TEL COMMUNICATIONS**  
P.O. BOX 239  
WARRIORS MARK, PA 16877  
PH: (814) 632-3501

**PENN STATE TELECOMMUNICATIONS AND NETWORKING SERVICES**  
110 UNIVERSITY SUPPORT BUILDING 2  
UNIVERSITY PARK, PA 16802-1013  
PH: (814) 863-5419 (JIM REIGH)

## FERGUSON TOWNSHIP



## PUBLIC WORKS & ENGINEERING

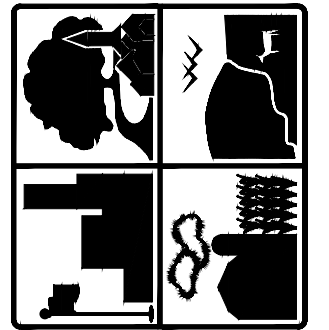
3147 RESEARCH DRIVE, STATE COLLEGE, PA 16801  
PH: 814-238-4651  
FAX: 814-238-3454  
WWW.TWP.FERGUSON.PA.US

DRAWING INDEX

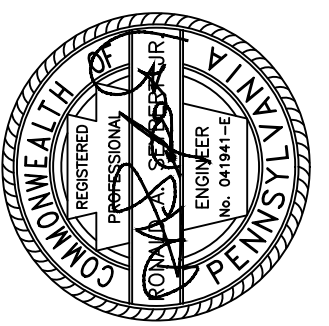
1	COVER
2	GENERAL NOTES & PROJECT LOCATION
3	WEST CHERRY LANE SCHOOL ZONE
4-5	BLUE COURSE DRIVE & MARTIN STREET SIGNAL

FERGUSON TOWNSHIP BOARD OF SUPERVISORS

LISA STRICKLAND	CHAIR
JEREMIE THOMPSON	VICE CHAIR
PATRICIA STEPHENS	BOARD MEMBER
OMARI PATTERSON	BOARD MEMBER
MATTHEW HELLER	BOARD MEMBER
CENTRICE MARTIN	SECRETARY, TOWNSHIP MANAGER



**FERGUSON TOWNSHIP**  
DEPT. OF PUBLIC WORKS & ENGINEERING  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
PHONE: 814-238-4651  
FAX: 814-238-3454  
www.twp.ferguson.pa.us



REV.	DATE	REVISION DESCRIPTION
1	2-14-24	REVISED PER PENNDOT REVIEW OF 2-7-24

CHERRY LANE SCHOOL ZONE FLASHER  
CONTRACT 2023-C4

### COVER

DESIGNED BY: RAS  
DRAWN BY: RTS  
CHECKED BY: RAS  
DATE: 01-08-2024

**PROJECT NOTES:**

- OWNER: FERGUSON TOWNSHIP  
3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
(814) 238-4651
- ELEVATIONS AND HORIZONTAL CONTROL ARE BASED ON NAD83 Pennsylvania State Planes, North Zone, US Foot DATUM. CONTACT FERGUSON TOWNSHIP ENGINEERING DEPT. FOR PROJECT TRAVERSE POINT LOCATIONS/INFORMATION.
- THE LEGAL RIGHT OF WAY ON CHERRY LANE IS VARIABLE.
- THE LEGAL RIGHT OF WAY ON MARTIN STREET IS VARIABLE.

**UTILITY NOTES:**

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS OF THE VARIOUS FACILITY OWNERS AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST NOTIFY THE PA ONE-CALL SYSTEM AT LEAST 3 DAYS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- THE CONTRACTOR SHALL DIG TEST PITS AT EXISTING CONFLICTS SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT PLAN REVISIONS AS REQUIRED.
- ALL EXISTING ON-SITE UTILITIES SHALL REMAIN FUNCTIONAL UNLESS DESIGNATED FOR REMOVAL OR ABANDONMENT.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE RELOCATION OF ALL EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- NO UTILITY SERVICE MAY BE DISCONNECTED WITHOUT PRIOR APPROVAL OF THE OWNERS REPRESENTATIVE.

**CONSTRUCTION NOTES:**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING PUBLICATIONS:  
FERGUSON TOWNSHIP CHAPTER 21 - "STREETS AND SIDEWALKS"  
FERGUSON TOWNSHIP CHAPTER 26 - "WATER (STORMWATER MANAGEMENT)"  
PENNDOT PUBLICATION 13M - DESIGN MANUAL 2 - HIGHWAY DESIGN  
PENNDOT PUBLICATION 408 / 2020 (CHANGE No. 7)  
PENNDOT PUBLICATIONS 34, 35, 37, AND 38 (APPROVED CONSTRUCTION MATERIALS)  
PENNDOT PUBLICATION 70M - GUIDELINES FOR DESIGN OF LOCAL ROADS AND STREETS  
PENNDOT PUBLICATION 72M - STANDARDS FOR ROADWAY CONSTRUCTION  
PENNDOT PUBLICATION 111M - TC 8700 TRAFFIC SIGNING STANDARDS  
PENNDOT PUBLICATION 148 - TC 8800 TRAFFIC STANDARDS  
PENNDOT PUBLICATION 213M - WORK ZONE TRAFFIC CONTROL  
PENNDOT PUBLICATION 236M - HANDBOOK OF APPROVED SIGNS  
PENNSYLVANIA CODE, TITLE 67, CHAPTERS 441 AND 459

**TRAFFIC CONTROL NOTES:**

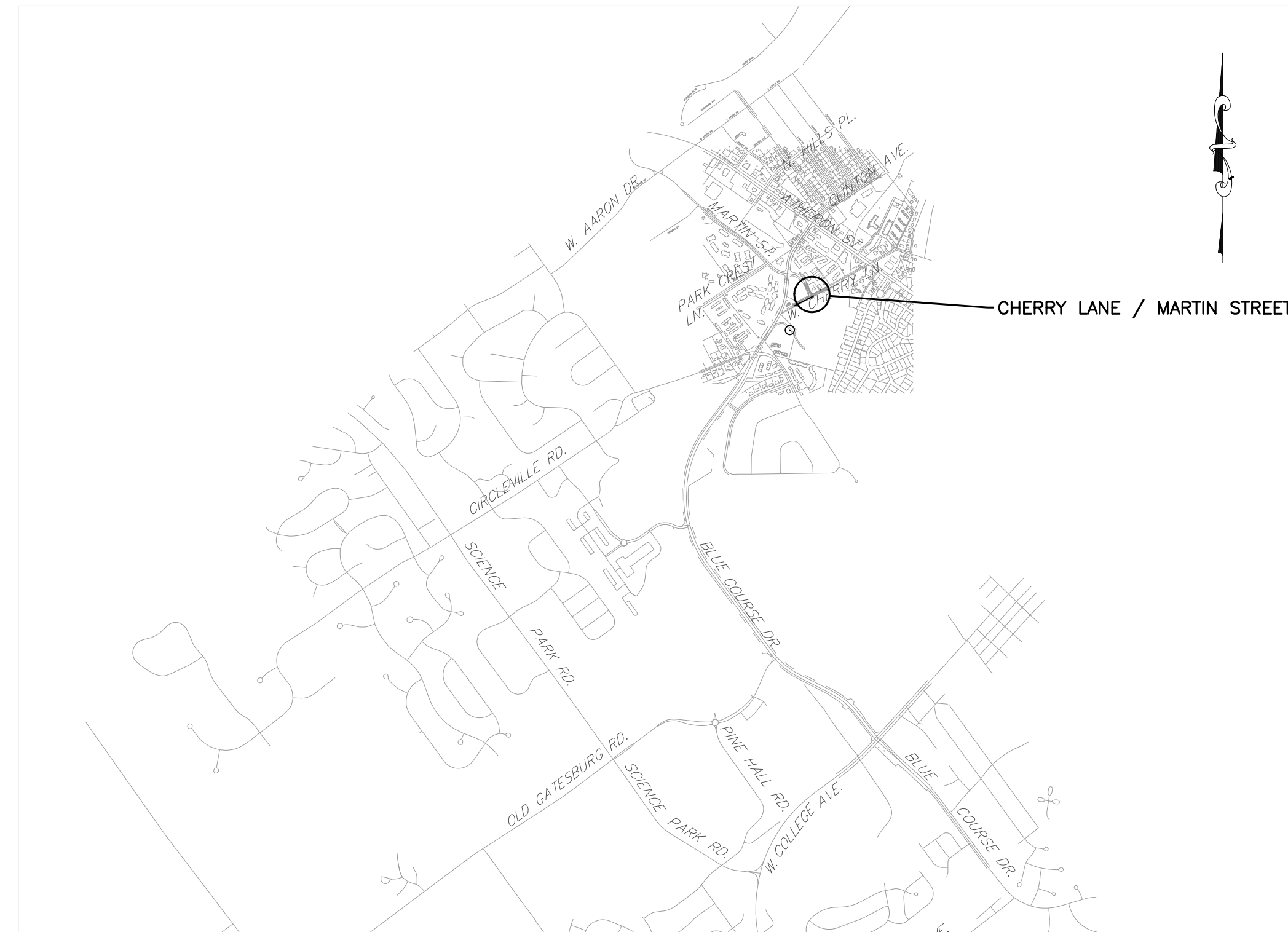
- MAINTAIN TRAFFIC IN ACCORDANCE WITH THE LATEST EDITION OF PENNDOT PUBLICATION 213M (67 PA CODE, CH. 212) WORK ZONE TRAFFIC CONTROL GUIDELINES.
- PROVIDE FLAGGERS AT INTERSECTIONS DURING LANE CLOSURES.
- SHORT-TERM WORK ZONE TRAFFIC CONTROL SHALL BE REMOVED AT THE END OF EACH WORK DAY.
- DO NOT HAVE TRAVEL LANE DROP-OFFS/OPEN EXCAVATIONS DURING NON-WORKING HOURS.
- THE POSTED SPEED LIMIT ON CHERRY LANE AND MARTIN STREET ARE 25 MPH.
- PROVIDE ORANGE REFLECTIVE FENCING WITH DELINEATION DEVICES AROUND AREAS OF OPEN EXCAVATION TO DELINEATE FOR PEDESTRIAN TRAFFIC.
- PROVIDE CANALIZING DEVICES AS NEEDED TO CLEARLY DELINEATE TRAVEL LANE AND ACCESS TO DRIVEWAYS.
- PROVIDE AN APPROPRIATE NUMBER OF FLAG PERSONS AS NEEDED BASED UPON LIMIT OF WORK AREA.
- NO LANE CLOSURES ON CHERRY LANE AND/OR MARTIN STREET FROM 7:30-8:30 AM AND 2:30-3:30 PM.

**LEGEND**

	Existing		Existing Text
	Control Point		Guy Wire
	Utility Pole		Road Sign
	Manhole		Water Valve
	Gas Valve		Mailbox
	Fire Hydrant		Light Post
	Clean Out		Ballard
	Shrub		Evergreen Tree
	Deciduous Tree		Fence
	Right-of-Way Line		Easement Line
	Property Line		Water Line
	Storm Sewer		Sanitary Sewer
	Underground Electric		Overhead Electric
	Underground Telecomm		Gas Line
	Major Contour		Minor Contour

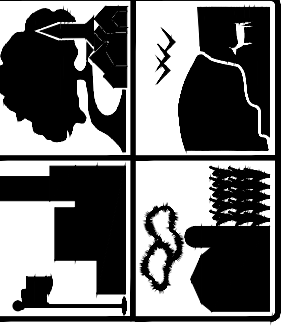
ITEM NO.	ITEM DESCRIPTION	QTY	UNITS
0608-0001	MOBILIZATION	1	LS
0802-0001	TOPSOIL FURNISHED AND PLACED	1	CY
0901-0001	MAINTENANCE AND PROTECTION OF TRAFFIC	1	LS
0951-4014	TRAFFIC SIGNAL SUPPORT, 14' PEDESTAL	3	EA
0954-0012	2 INCH CONDUIT	5	LF
0954-0151	TRENCH AND BACKFILL, TYPE I	5	LF
0954-0302	JUNCTION BOX, JB-27	1	EA
0954-0402	ELECTRIC SERVICE, TYPE B	1	EA
9000-0001	SCHOOL FLASHER ASSEMBLY, SOLAR POWER ▲	1	EA
9000-0002	SCHOOL FLASHER ASSEMBLY, LINE POWER ▲	2	EA
9000-0003	NETWORK INTERFACE AND GATEWAY CONTROLLER ▲	1	EA
9000-0004	SEEDING, SOIL SUPPLEMENTS, AND MULCHING ▲	15	SY

▲ SPECIAL PROVISION



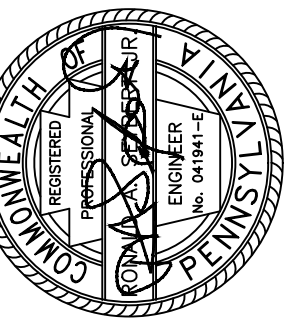
**PROJECT LOCATION MAP**

1"=2000'



**FERGUSON TOWNSHIP**  
DEPT. OF PUBLIC WORKS & ENGINEERING

3147 RESEARCH DRIVE  
STATE COLLEGE, PA 16801  
PHONE: 814-238-4651  
FAX: 814-238-3454  
www.twp.ferguson.pa.us



REV.	DATE	REVISION DESCRIPTION
1		
2-14-24		REVISED PER PENNDOT REVIEW OF 2-7-24

CHERRY LANE SCHOOL ZONE FLASHER  
CONTRACT 2023-C4

**GENERAL NOTES & PROJECT LOCATION**

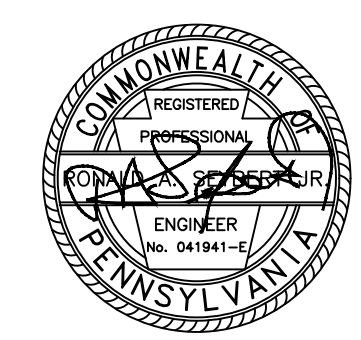
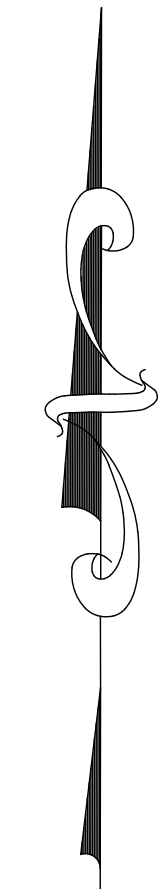
DESIGNED BY: RAS	<b>2</b>
DRAWN BY: RTS	
CHECKED BY: RAS	
DATE: 01-08-2024	

F:\PATH\N:\PUBLIC\WORKS\PWSTAFF\CAPITAL\PROJECTS\2023-C4\CHERRY\_LANE\_SCHOOL\_ZONE\DWG\CHERRY\_LANE\_SCHOOL\_SIGNAL\_PLAN-CURRENT.DWG SAVIED:2/14/2024 8:52 AM

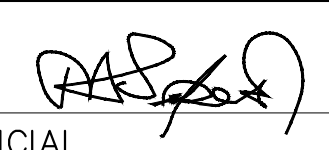
# SCHOOL FLASHER CONSTRUCTION PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
2-0	CENTRE	LOCAL	2023-C4	3 OF 5
FERGUSON TOWNSHIP				
REVISION NUMBER	REVISION NUMBER	DATE	BY	
1	REVISED PER PENNDOT REVIEW OF 2-7-24	2-14-24	RAS	

- ALL EXISTING SIGNS, POSTS, AND ANCHORS THAT GET REMOVED ARE TO BE DELIVERED TO THE FERGUSON TOWNSHIP PUBLIC WORKS BUILDING AS DIRECTED BY OWNER.
- POWER SUPPLY TO EACH POLE SHALL BE AS FOLLOWS:  
 POLE 1 - SOLAR  
 POLE 2 - TYPE B SERVICE  
 POLE 3 - EXISTING SERVICE



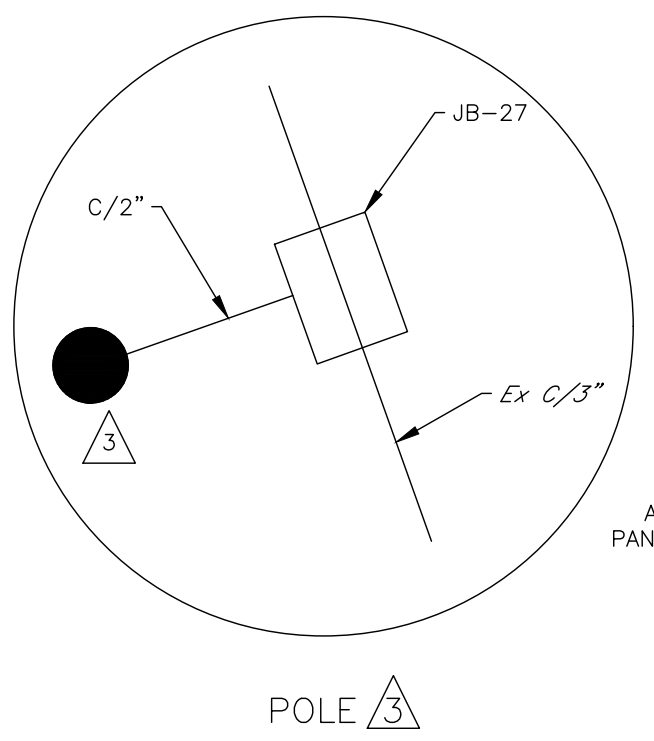
COUNTY : CENTRE  
 MUNICIPALITY : FERGUSON TOWNSHIP  
 INTERSECTION : W. CHERRY LANE FOR  
RADIO PARK ELEMENTARY SCHOOL

APPROVED :  01/08/2023  
 MUNICIPAL OFFICIAL \_\_\_\_\_ DATE

RECOMMENDED : \_\_\_\_\_  
 DISTRICT TRAFFIC ENGINEER \_\_\_\_\_ DATE

SCALE :  0 25 50 75

FLASHER MASTER CONTROLLER LOCATED IN SIGNAL CABINET AT BLUE COURSE DR AND MARTIN ST. CONNECTED TO NETWORK SWITCH WITH SPREAD SPECTRUM COMMUNICATION TO ALL SCHOOL SIGNS



S1-1 SCHOOL SIGN AND S4-3P SCHOOL PANEL TO BE REMOVED

Existing C/3 for power to signal of Blue Course Drive

MODIFY EXISTING DISCONNECT TO SUPPLY 15A TANDEM BREAKER TO FEED LUMINAIRES AT BLUE COURSE AND SCHOOL FLASHER

EXISTING S5-2 END SCHOOL ZONE SIGN TO REMAIN

Lands N/F of Workman, Daniel G & Melissa D 761 W Cherry Lane 24-014-.023-.0000-Bk-Pg 1048-0314

TYPE B SERVICE

5'X5' SIGN EASEMENT

W CHERRY LANE (TR-342) VARIABLE R/W

EXISTING S1-1 SCHOOL SIGN AND S4-3P SCHOOL PANEL TO BE REMOVED

EXISTING S5-2 END SCHOOL ZONE SIGN TO REMAIN

EXISTING S1-1 SCHOOL SIGN, 30"x30" AND W16-7P DIAGONAL DOWNWARD POINTING ARROW PLAQUE TO REMAIN

Lands N/F of Macintosh Courts LP 265 A Blue Course Drive 24-014-.032-.0000-Bk-Pg 2174-0425

Lands N/F of State College Joint School 800 W Cherry Lane 36-001-200-.0000-Bk-Pg 0400-0322

RADIO PARK ELEMENTARY SCHOOL

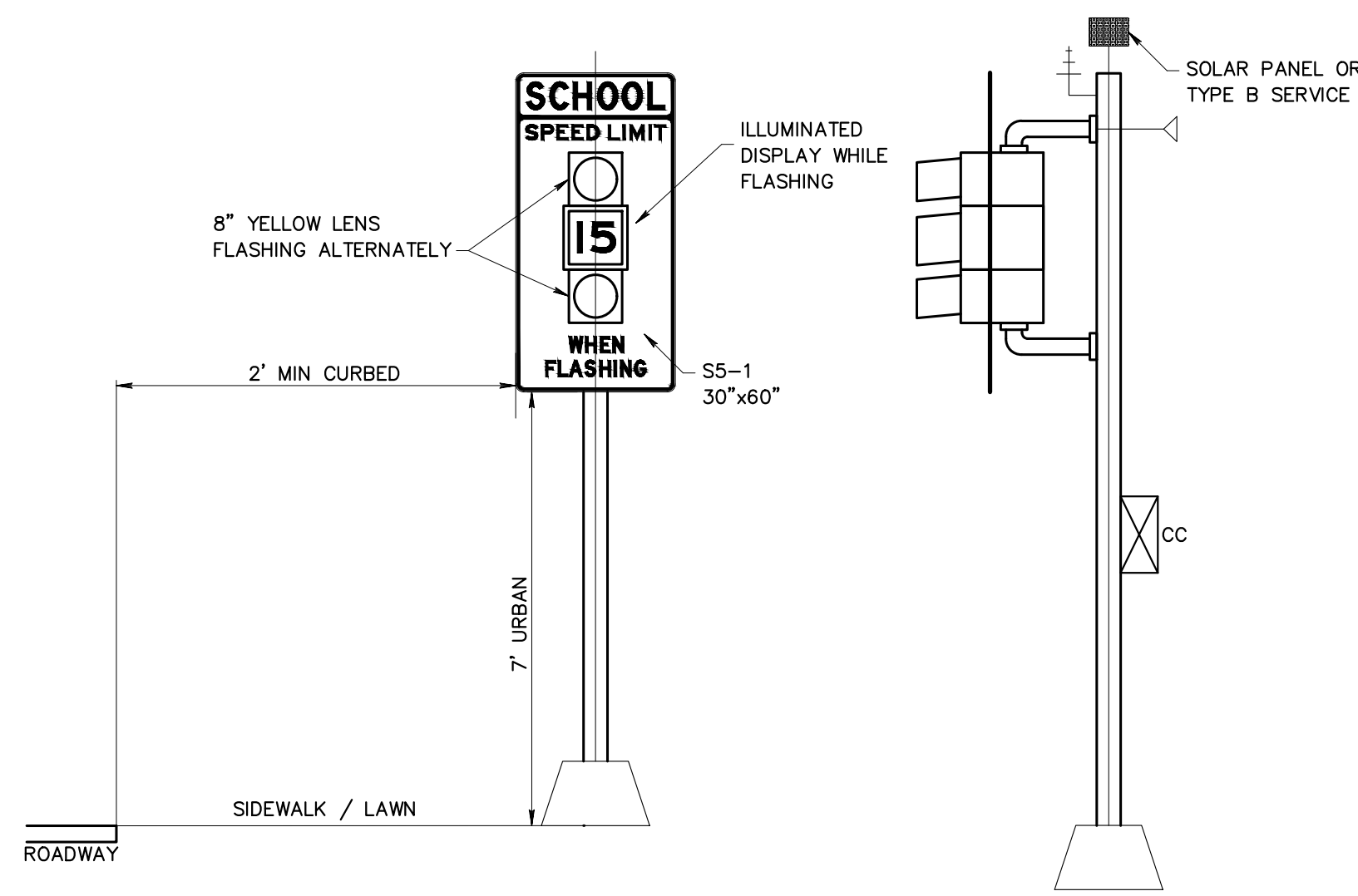
W CHERRY LANE (TR-342) VARIABLE R/W






5'X5' SIGN EASEMENT

EXISTING S1-1 SCHOOL SIGN AND S4-3P SCHOOL PANEL TO BE REMOVED

Lands N/F of Area School District 200 W Cherry Lane 24-014-.032-.0000-Bk-Pg 0400-0322

## FLASHING WARNING DEVICE DETAIL



- PROPOSED
-  - 14' PEDESTAL
  -  - SIGN
  -  - CONTROLLER ASSEMBLY WITH SPREAD SPECTRUM
  - W/6" - SOLID WHITE LINE/WIDTH
  - DY/4" - DOUBLE SOLID YELLOW LINE/WIDTH
  -  - CONFIRMATION BEACON
  -  - ANTENNA

## SIGNS

PLAN SYMBOL	SERIES DESIGNATION	SIZE W X H	DESCRIPTION	QUANTITY
* (A)	S5-1	30x60	SCHOOL SPEED LIMIT 15 WHEN FLASHING WITH CONFIRMATION LIGHT	3
(B)	S5-2	24x30	END SCHOOL ZONE	2
** (C)	S1-1 AND W16-7P	30x30	SCHOOL SIGN AND DIAGONAL DOWNWARD ARROW	2

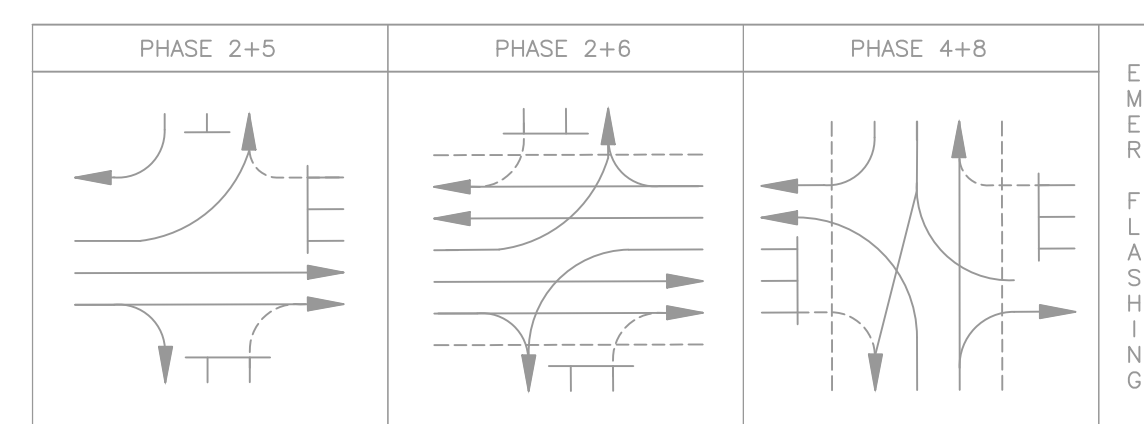
\* - SCHOOL TO BE FLUORESCENT YELLOW/GREEN  
 \*\* - BOTH SIGNS TO BE FLUORESCENT YELLOW/GREEN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
2-0	CENTRE	LOCAL	2023-C4	4 OF 5
FERGUSON TOWNSHIP				
REVISION NUMBER	REVISION NUMBER	DATE	BY	
1	REVISED PER PENNDOT REVIEW OF 2-7-24	2-14-24	RAS	

CONSTRUCTION NOTES:

- INSTALL MASTER TIME CLOCK IN CONTROLLER CABINET AND CONNECT TO NETWORK SWITCH.
- INSTALL AND CONNECT RADIO ANTENNA.

PHASING DIAGRAM



SIGNALS	1	2	3	4	1	2	3	4	1	2	3	4	
1-2	R	R	R		G	G	Y	R	R	R	R	R	Y
3-4	G	Y	R		G	G	Y	R	R	R	R	R	Y
5-6-7-8	R	R	R		R	R	R	R	G	G	Y	R	R
22	R	R	R		R	R	R	R	G	G	Y	R	R
9-10-11-16	H	H	H		H	H	H	H	M*	FH*	H	H	OFF
12-13-14-15	H	H	H		M*	FH*	H	H	H	H	H	H	OFF
21	G	Y	R		G	Y	R		R	R	R	R	OFF
FIXED	3	3			4.0	2.0			3.0	3.0			
MINIMUM	3				10				3				
PASSAGE	2				1.5				2				
MAXIMUM I	17				21				25				
▲ CYCLE 1	28				29				33				
▲ CYCLE 2	39				26				25				
PEDESTRIAN**					7	20			7	19			
MEMORY	NON-LOCKING				MIN RECALL				NON-LOCKING				

\* UPON PEDESTRIAN ACTIVATION, OTHERWISE DON'T WALK AT ALL TIMES  
 \*\* UPON PEDESTRIAN ACTIVATION ONLY

**ADVANCE DILEMMA ZONE NOTES**  
 ESTIMATED TIME OF ARRIVAL: MINIMUM 2.5 SECONDS - MAXIMUM 5.5 SECONDS. RANGE OF DETECTION: MINIMUM 5 FEET - MAXIMUM 450 FEET FROM THE STOP BAR. MINIMUM SPEED BOUNDARY 10 MPH. ZONE MAY BE ADJUSTED IN THE FIELD.

**PRESENCE DETECTION ZONE NOTES**  
 RANGE OF DETECTION: MINIMUM 30 - MAXIMUM 100 FEET FROM STOP BAR. MINIMUM SPEED BOUNDARY - 1 MPH ZONE MAY BE ADJUSTED IN FIELD.

COORDINATION PROGRAM

PLAN NO.	DAY OF WEEK	TIME	CYCLE	OFFSET	REMARKS
1	X X X X X X X	0:00	90		FREE
2	X X X X X X	7:00	90	20	CYCLE 1
3	X X X X X X	15:00	90	66	CYCLE 2
4	X X X X X X	19:00	90		FREE
5	X	6:00	90		FREE

OFFSETS REFERENCED TO START OF YELLOW PHASE 2+6.

INTERCONNECT NOTES:  
 CONTROLLER INTERCONNECTED VIA BROAD BAND WITH ADJACENT SIGNALS TO PROVIDE A PROGRESSIVE MOVEMENT OF TRAFFIC

INTERSECTIONS INCLUDED IN SYSTEM:  
 - THIS INTERSECTION  
 - BLUE COURSE DR/CIRCLEVILLE RD  
 - BLUE COURSE DR/HAVERSHIRE BLVD  
 - BLUE COURSE DR/OLD GATESBURG RD

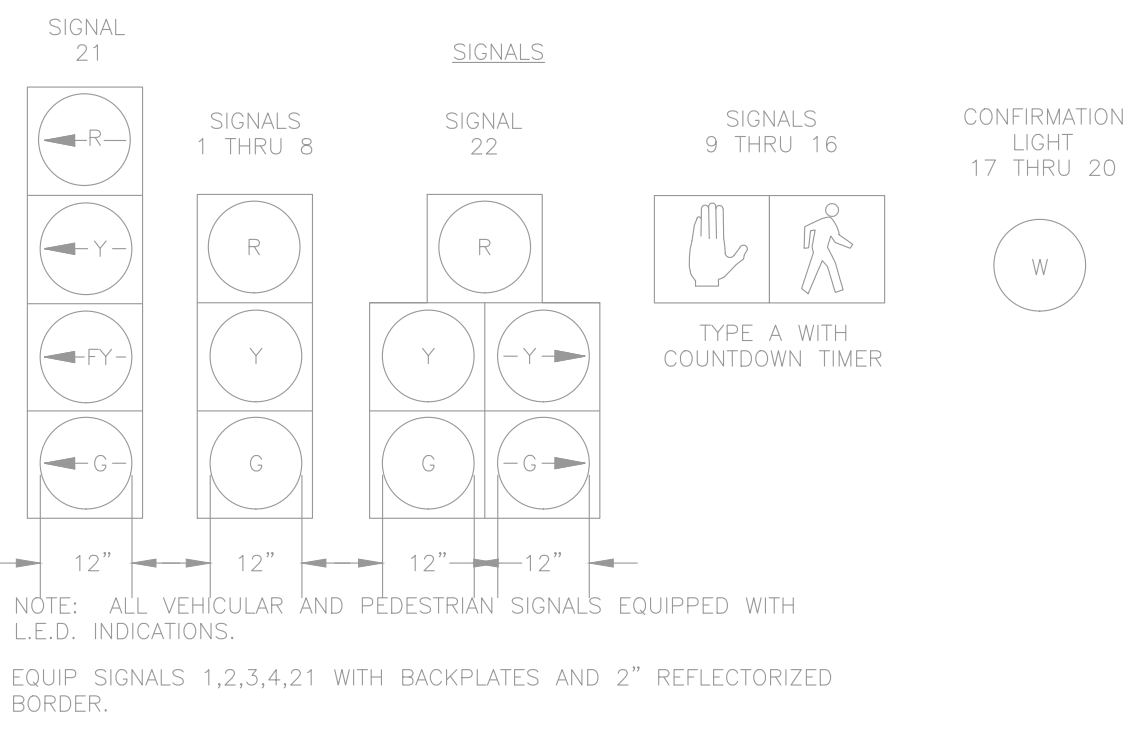
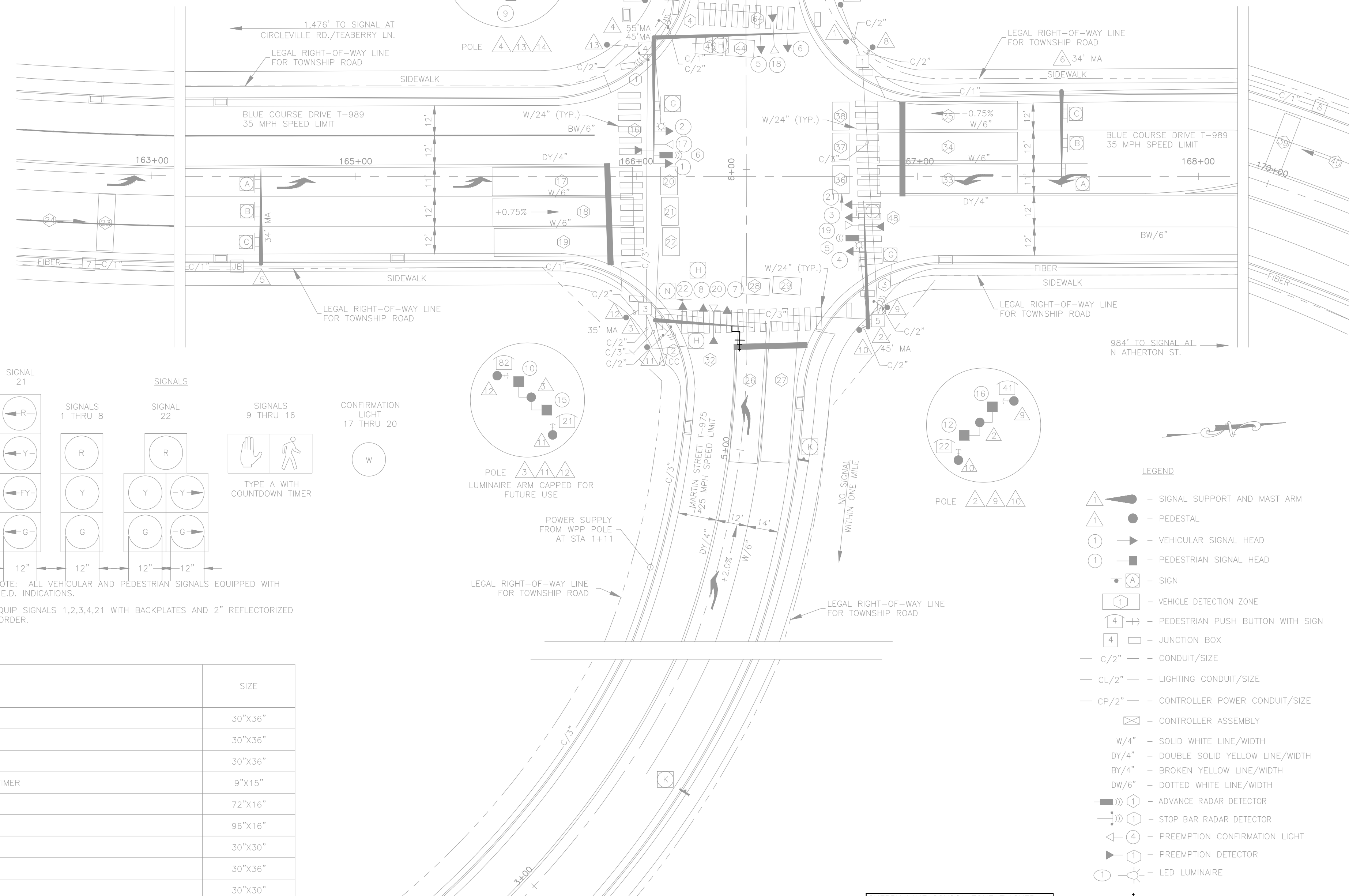
ATSPM DETECTOR MAPPING TABLE

DETECTOR TYPE	DETECTOR SIZE / LOCATION FROM STOP BAR	PHASE / ZONE (DETECTOR  )							
		2	5	4	7	6	1	8	3
PRESENCE	50' x 10' @ 40'	18-19 (1)	17 (1)	26-27 (2)	-	33-35 (3)	-	42-43 (4)	-
COUNT	6' x 10' @ -20'	21-22 (1)	20 (1)	28-29 (2)	-	36-38 (3)	-	44-45 (4)	-
PULSE ADVANCE	6' @ 400'	23 (5)	-	-	-	39 (6)	-	-	-
DILEMMA ZONE	CONTINUOUS @ 450'	24 (5)	-	-	-	40 (6)	-	-	-
PEDESTRIAN	PB	49	21-22	50	41-42	51	61-62	52	81-82

• DETECTOR 27 TO HAVE 20 SECOND DELAY

CONTROLLER NOTES

- G IF FOLLOWED BY PHASE 2+6.
- ←R- FROM 3PM TO 7PM MONDAY THROUGH FRIDAY OR ←R- ANYTIME DETECTION ZONE 35 IS OCCUPIED
- FLASHING YELLOW ARROW HAS TWO SECOND DELAY

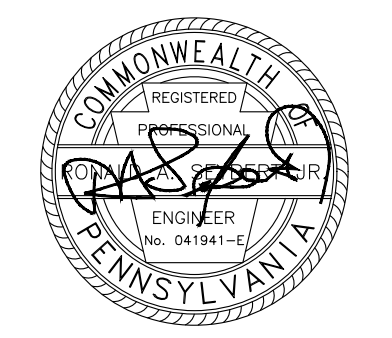


SIGNS

PLAN SYMBOL	DESCRIPTION	SIZE
(A)	R3-5L, LEFT TURN	30"x36"
(B)	R3-5S, STRAIGHT THROUGH	30"x36"
(C)	R3-6SR, OPTIONAL RIGHT TURN	30"x36"
(D)	R10-3E, EDUCATIONAL PUSH BUTTON FOR WALK SIGNAL WITH COUNTDOWN TIMER	9"x15"
(E)	D3-4, Martin St	72"x16"
(F)	D3-4, Blue Course Dr	96"x16"
(G)	R3-8A(L-SR), LANE USE CONTROL SIGN	30"x30"
(H)	R10-12A, LEFT TURN YIELD ON FLASHING YELLOW ARROW	30"x36"
(I)	R3-8A(LS-R), LANE USE CONTROL SIGN	30"x30"
(J)	R10-10R, RIGHT TURN SIGNAL	30"x36"

- LEGEND
- SIGNAL SUPPORT AND MAST ARM
  - PEDESTAL
  - VEHICULAR SIGNAL HEAD
  - PEDESTRIAN SIGNAL HEAD
  - SIGN
  - VEHICLE DETECTION ZONE
  - PEDESTRIAN PUSH BUTTON WITH SIGN
  - JUNCTION BOX
  - CONDUIT/SIZE
  - LIGHTING CONDUIT/SIZE
  - CONTROLLER POWER CONDUIT/SIZE
  - CONTROLLER ASSEMBLY
  - SOLID WHITE LINE/WIDTH
  - DOUBLE SOLID YELLOW LINE/WIDTH
  - BROKEN YELLOW LINE/WIDTH
  - DOTTED WHITE LINE/WIDTH
  - ADVANCE RADAR DETECTOR
  - STOP BAR RADAR DETECTOR
  - PREEMPTION CONFIRMATION LIGHT
  - PREEMPTION DETECTOR
  - LED LUMINAIRE
  - ANTENNA

CHERRY LANE SCHOOL ZONE FLASHER MASTER CLOCK INSTALLED IN CABINET AND CONNECTED TO NETWORK SWITCH.



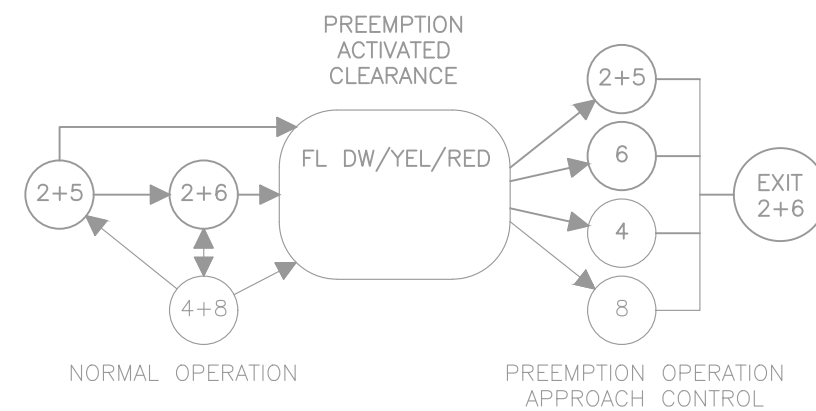
COUNTY : CENTRE  
 MUNICIPALITY : FERGUSON TOWNSHIP  
 INTERSECTION : BLUE COURSE DRIVE (T-989) AND MARTIN STREET (T-975)

APPROVED BY:   
 MUNICIPAL OFFICIAL 1/8/2024  
DATE

RECOMMENDED :  
 DISTRICT TRAFFIC ENGINEER DATE

SCALE :

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
2-0	CENTRE	LOCAL	2023-C4	5 OF 5
FERGUSON TOWNSHIP				
REVISION NUMBER	REVISIONS		DATE	BY



**EMERGENCY VEHICLE (FIRE APPARATUS) PREEMPTION NOTES:**

EMERGENCY VEHICLE PREEMPTION MAY OCCUR DURING ANY INTERVAL OF THE NORMAL CONTROLLER OPERATION. PROVIDE EMERGENCY VEHICLE PREEMPTION EQUIPMENT IN THE CONTROLLER CABINET CAPABLE OF DISPLAYING APPROACH CONTROL OPERATION. DEPENDING ON THE DIRECTION OF TRAVEL OF THE EMERGENCY VEHICLE, ONE OF THE FOLLOWING PHASES SHALL BE DISPLAYED: PHASE 2+5, PHASE 6, PHASE 4, OR PHASE 8. PROVIDE THE FOLLOWING SEQUENCE UPON ACTIVATION BY AN EMERGENCY VEHICLE.

IF THE CONTROLLER OPERATION IS IN INTERVAL 1 (GREEN/GREEN ARROW OR RED/GREEN ARROW) OF A NON-PREEMPTIVE PHASE, THE CONTROLLER SHALL IMMEDIATELY TERMINATE THE CONFLICTING GREEN INDICATION AND PROCEED THROUGH THE YELLOW AND ALL RED CLEARANCE INTERVALS BEFORE PROCEEDING TO THE PREEMPTION PHASE GREEN.

IF THE CONTROLLER OPERATION IS IN INTERVAL 1 (GREEN/WALK) OF A NON-PREEMPTIVE PHASE, THE CONTROLLER SHALL IMMEDIATELY TERMINATE THE CONFLICTING WALK INDICATION AND PROCEED THROUGH THE FLASHING DONT WALK INTERVAL. THE YELLOW AND ALL RED INTERVALS BEFORE PROCEEDING TO THE PREEMPTION PHASE GREEN. THE GREEN INDICATION SHALL REMAIN GREEN THROUGH THE FLASHING DONT WALK INTERVAL.

IF THE CONTROLLER IS IN INTERVAL 2 (GREEN/FLASHING DONT WALK) OF A NON-PREEMPTIVE PHASE, THE CONTROLLER SHALL TIME OUT THE INTERVAL BEFORE PROCEEDING THROUGH THE YELLOW AND ALL RED CLEARANCE INTERVALS. THE GREEN INDICATION SHALL REMAIN GREEN THROUGH THE FLASHING DONT WALK INTERVAL.

IF THE CONTROLLER OPERATION IS IN INTERVAL 1 (GREEN) OF A PREEMPTION PHASE, THE CONTROLLER SHALL REMAIN IN THE GREEN INTERVAL OF THE PREEMPTION PHASE WHILE THE CONFLICTING GREEN INDICATIONS ARE IMMEDIATELY TERMINATED AND PROCEED THROUGH THE YELLOW AND ALL RED INTERVALS.

IF THE CONTROLLER IS IN INTERVAL 1 (GREEN/WALK) OF A PREEMPTION PHASE, THE CONTROLLER SHALL REMAIN IN THE GREEN INTERVAL OF THE PREEMPTION PHASE AND IMMEDIATELY TERMINATE THE WALK INDICATION AND PROCEED TO TIME THE FLASHING DONT WALK INTERVAL TIME. UPON CONCLUSION OF THE FLASHING DONT WALK TIME ANY CONFLICTING GREEN INDICATION WILL BE IMMEDIATELY TERMINATED AND PROCEED THROUGH THE YELLOW AND ALL RED INTERVALS.

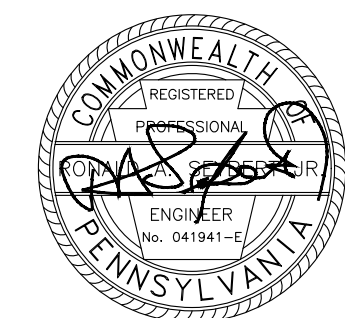
IF THE CONTROLLER OPERATION IS IN INTERVAL 2 (GREEN/FLASHING DONT WALK) OF A PREEMPTION PHASE, THE CONTROLLER SHALL REMAIN IN THE GREEN INTERVAL OF THE PREEMPTION PHASE, EXCEPT THE FLASHING DONT WALK SHALL TIME OUT. UPON CONCLUSION OF THE FLASHING DONT WALK TIME ANY CONFLICTING GREEN INDICATION WILL BE IMMEDIATELY TERMINATED AND PROCEED THROUGH THE YELLOW AND ALL RED INTERVALS.

IF THE CONTROLLER OPERATION IS IN THE YELLOW/YELLOW ARROW OR RED CLEARANCE INTERVAL OF ANY PHASE, THE CONTROLLER SHALL TIME OUT THOSE INTERVALS NORMALLY BEFORE PROCEEDING TO THE PREEMPTION PHASE GREEN.

UPON TERMINATION OF THE PREEMPTION, THE SIGNAL SHALL RETURN TO NORMAL OPERATION.

FLASHING TO EMERGENCY VEHICLE PREEMPTION. IF EMERGENCY VEHICLE PREEMPTION OCCURS WHEN THE TRAFFIC SIGNALS ARE IN CONFLICTING/TIME CLOCK FLASHING OPERATION, THE NORMAL FLASHING OPERATION SEQUENCE, AS SHOWN IN THE PHASING DIAGRAM, SHALL CONTINUE.

FAIL-SAFE INDICATION. WHEN THE PREEMPTION SIGNAL HAS BEEN ACCEPTED, THE FAIL-SAFE INDICATION SHALL BE DISPLAYED IMMEDIATELY ON THE PREEMPTED APPROACH IN THE FORM OF A FLASHING WHITE LIGHT. THE FAIL-SAFE INDICATION SHALL CONTINUE TO FLASH FOR THE DURATION OF THE PREEMPTION PHASE. NO FAIL-SAFE INDICATION SHALL BE GIVEN DURING FLASHING OPERATION.



COUNTY : CENTRE

MUNICIPALITY : FERGUSON TOWNSHIP

INTERSECTION : BLUE COURSE DRIVE (T-989) AND  
MARTIN STREET (T-975)

APPROVED BY: *[Signature]* 1/8/2024  
MUNICIPAL OFFICIAL DATE

RECOMMENDED : \_\_\_\_\_  
DISTRICT TRAFFIC ENGINEER DATE

SCALE : 0 25 50 75